

# Lecture Summary – CS15210

Friday, April 22

The title of the slide was “Wide Area Services Provided Mainly for Data”.

I missed a bit of the start because ears.



Beautiful.

I started paying attention when the topic of PSTN's general advantages was being introduced. For one the PSTN is designed to carry a larger range of frequencies which results in a higher capacity for transferring data. It was also noted that PSTN lines can be configured and installed for better signal-to-noise ratios, PSTN also uses more than one pair of wires or might use fibre. Finally it was mentioned that PSTN has different tariff principles,

The topic then moved to Leased lines (“private circuits”) where they're leased for 24 hours a day, every day with a fixed annual charge, analogue and digital methods are available with leased lines and single to long distance options are available as well. It was noted that some of these options won't be available for new supply after October 2016.

The lecture moved to PSTN cost examples (ignoring “complex packages”) for comparison. Residential options include local daytime calls at about 3.4 pence per minute and national daytime calls at about 6.7 pence per minute. Dap suddenly changed the slide right off the bat when I was typing – why Dap, whyy?!



The slide changed to example costs for analogue-based leased lines except the text size was as low as Donald Trump's IQ.

The next slide showed digital leased lines options from BT, KiloStream and MegaStream were shown on this slide. KiloStream was shown as having low speed, high speed, and “N” options where as MegaStream was shown as having multiple speed options including “2Mbps” (...) “45Mbps” (...) “155Mbps”, and higher.

Moving into a more in-depth view, KiloStream was shown as costing about £1k to install and about 5000 (8000? “WHAT IS THIS, A [SLIDE] FOR ANTS!?”) for rental. MegaStream was then looked at in detail – installation for a 155 Mbps line at Aberystwyth had costed £32,000 with a rental rate of £550,000 per annum - looooads a moneeey.



The topic then moved onto short haul services however I forgot to bring my magnifying glass to the lecture.

Next Dap talked about example costs for SHDS connections with 1GB/sec line. Installation in Aberystwyth costed £4900 and rental rate was shown to be £9320.

He showed the costs of Geees 10Gbps but didn't quite get the numbers, they're on the slide anyway.

Then we all got the heck outta there.